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TITLE: SILANE-MODIFIED WAX AND ITS PREPARATION

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ABSTRACT:

PURPOSE: To prepare a post-curable silane-modified wax useful for adhesives, coating additives, etc., having excellent solvent resistance, adhesive properties, etc., by the graft-copolymerization of a wax with a specific silane compound.

CONSTITUTION: (A) 100 parts by weight of a wax having an intrinsic viscosity $[\eta]$ of 0.05 ~ 0.8 (pref. olefin wax) is reacted with (B) preferably 0.5 ~ 100 parts by weight of a silane compound having an olefinic unsaturated bond-containing group and a hydrolyzable organic group. The reaction is carried out under non-extrusion molding condition in the presence of a radical initiator adding the (B) compound at a rate of, e.g. 1~10 mM/min/kg-wax. The reaction gives a graft copolymer containing 0.3 ~45 wt.% of grafted silane compound. Preferably the silane-modified wax has a penetration degree of 0 ~ 50 and a melt viscosity of 1 ~ 300,000 cps at 160°C.

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